ANACHEM
A METTLER TOLEDO COMPANY

RAININ Catalogue 2010

- Manual Pipettes
- Electronic Pipettes
- Multichannel Pipettes
- Specialty Products
- BioClean Tips
- Accessories

Pipettes, Tips and Service Top products for top performance

METTLER TOLEDO

Pipetting 360° brings true value

- Enhances pipetting performance
- Reduces total cost of ownership, fewer out-of-tolerance pipettes
- Complete management of your pipette inventory
- Offers the broadest selection of pipettes, tips & services
- Facilitates standards compliance

Pipetting 360°

Only an Integrated Solution Delivers Best Pipetting Performance

Hand-friendly Pipettes
World's largest selection of high-quality pipettes with innovative ergonomic designs, including the patented LTS LiteTouch System.

BioClean™ Tips
A wide array of tips, flawless and free from contamination. Available in a variety of feature sets, volume ranges, and packaging options.

Perfect Performance Services
Comprehensive service range including maintenance, calibration, training, quality control, and improvement processes.

COMPREHENSIVE • RELIABLE • HASSLE FREE

Pipetting 360°
This is What You Can Expect

Worry-free Pipetting for Top Performance

Every measurement involves risks which can compromise results and impair the quality of your final product. Pipetting 360° ensures the constant quality of your processes.

Knowledge Increases Competence

Your process requirements are at the heart of our solutions. Professional training and support from Anachem increases your measuring accuracy and guarantees that both the user and the pipette are up to the task from the start. Which pipette and tips to choose, how often calibration is required, and how to fulfill regulatory issues? Pipetting 360° gives you clear answers.

Tailored Service Programs for Your SOPs

Minimize your risks by knowing them. GLP standards require users of food, drug, medical devices, and biological products to calibrate, clean, and maintain instruments (which also include pipettes) at suitable intervals.

Careful Selection Protects Your Investment

Selecting the right supplier of pipetting solutions can have a great impact on the quality of your end products. This can have a direct impact on your risk management.

ANACHEM

SINCE 1970 ANACHEM Ltd. has been supporting scientists in the UK and Ireland with an extensive range of high quality pipetting and laboratory supplies. Now, in its fortieth year, the Company is very proud to have become part of METTLER TOLEDO International Inc.

"As part of the METTLER TOLEDO organisation we will now be able to introduce our customers to the entire range of RAININ pipettes" said Carole Staniford, Marketing Director, Anachem Ltd. *"These products offer advances in ergonomics and performance, essential for today's demanding laboratory procedures."*

The Anachem and RAININ names have always been closely aligned since Ken Rainin became one of the founder members of Anachem forty years ago. The two Companies have both enjoyed significant growth and success since then and RAININ itself became part of METTLER TOLEDO in 2001.

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RAININ LTS™ LiteTouch™ System

The best choice for your hands

RAININ's LTS cylindrical shaft and tip design provides a reliable, consistent seal without excessive force. LTS thin-wall tips incorporate a small well-defined seal area and a positive stop. The positive stop lets you know exactly when the seal is made...

...NO NEED TO JAM OR POUND THE SHAFT INTO THE TIP

Pipetting is the most repetitive task in many laboratories

- Many researchers commonly pipette 2 to 4 hours per day

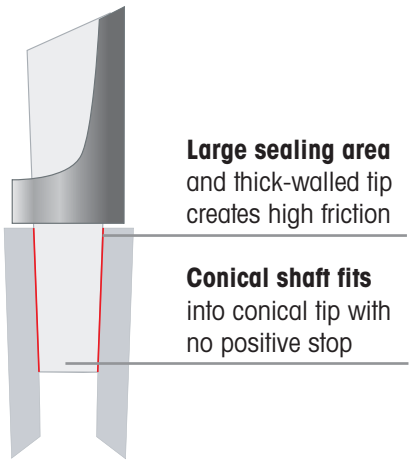
Pipetting is a high-force activity

- Traditional plunger forces may exceed 4kg
- Traditional tip ejection forces may exceed 4kg

Many researchers suffer from tired hands, leading to

- reduced pipetting accuracy
- decreased productivity
- repetitive strain injuries (RSI)

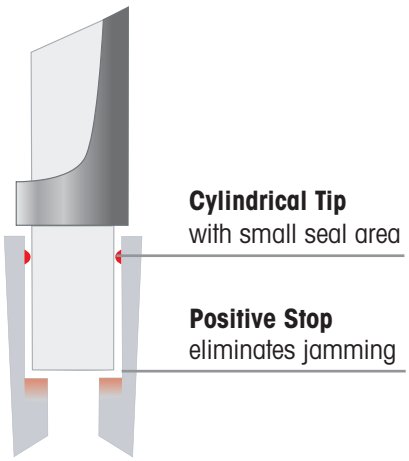
Traditional Pipetting
HIGH FORCES



Large sealing area and thick-walled tip creates high friction

Conical shaft fits into conical tip with no positive stop

LTS Cylindrical Tip & shaft
LOW FORCES



Cylindrical Tip with small seal area

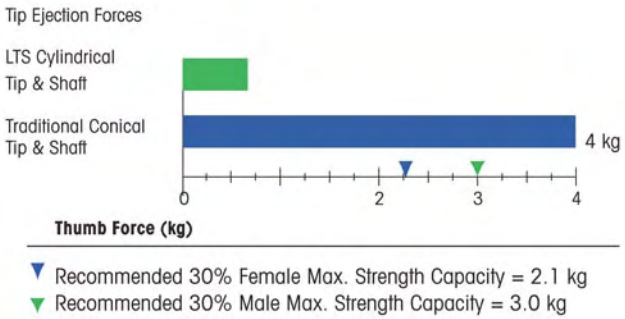
Positive Stop eliminates jamming

More accuracy and better productivity

LTS LiteTouch System – reducing tip ejection forces by 85%

With traditional conical tip/shaft designs, tip ejection forces can be as high as 10kg, with an average of 4kg. Tip ejection force is only 0.6kg with LTS.

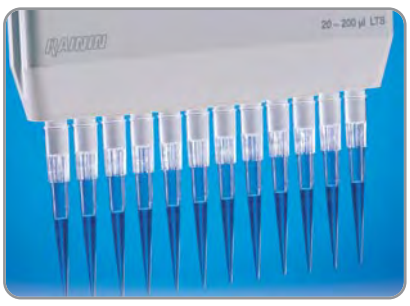
Tip forces shown below are for LTS and a competitor's traditional pipette. Less force results in less fatigue, with consistent sample pickup, consistently reproducible results, and better productivity.



Multichannel pipetting with LTS, consistent sample pickup

Multichannel pipetting with LTS is problem-free, providing absolutely consistent sample pick-up on every channel, every time. The positive stop indicates when a perfect seal is made, on all channels at once, without rocking or tightening tips by hand.

Multichannel pipetting with RAININ LTS pipettes and tips saves you time and money – no time wasted making sure each channel is secure, even sample pickup across all channels, reproducible results.



Hand-Friendly Pipettes

Top precison. Top ergonomics

RAININ pipettes enhance lab performance and help reduce time-to-market by guaranteeing highest accuracy and repeatability. Innovative ergonomic designs, including the patented LTS LiteTouch System, minimize fatigue and injury, reduce operator errors and inaccuracy.

High quality materials.

Ensure efficient, reliable, and secure pipetting. Durable & rugged construction for low out-of-tolerance errors & low cost of ownership.

State-of-the-art manufacturing processes.

Ensure that RAININ provides durable and reliable pipettes that greatly diminish mechanical drift.

Wide selection of pipetting options.

Enables scientists to always use the optimal application-specific instrument.

World's largest selection of high-quality pipettes

Single-channel Pipettes

RAININ offers the greatest flexibility. The vast choice of manual and electronic pipettes allows you to always have the right tool for a given application. Loaded with both ergonomic and performance enhancing features, such as the innovative LTS LiteTouch System, they are the optimal choice for just about every pipetting task.

Multichannel Pipettes.

RAININ multichannel pipettes, a hassle-free way to enjoy the benefits of pipetting with multiple channels. The LTS LiteTouch System gives an excellent seal without nozzle o-rings, resulting in absolutely consistent sample pick-up on all channels, every time.

Liquidator 96

Liquidator 96 pipetting system is a powerful personal research tool for all laboratories, pipetting 96 channels at the same time for maximum throughput. Accurate and efficient, Liquidator 96 maximizes workflow, without complicated programming or dedicated technician time. Incredibly fast, Liquidator 96 adds outstanding quality features to high throughput pipetting, with many applications.

Good Ergonomics - Less Force

Enhance your Lab Performance

Mastering perfect pipetting is not only about achieving highest measuring accuracy, but also about going easy on your hands. Keeping a good posture, occasionally switching hands and taking regular short breaks can increase productivity immensely. The use of ergonomic equipment is essential in today's pipetting tasks.

Magnetic Assist

A magnet assists the thumb to feel and hold the piston at the zero position. This reduces the need for a large differential between the aspiration and blowout springs, and both springs can be significantly lighter, resulting in 50% lower plunging forces. Magnetic assist also improves accuracy and reproducibility by providing a secure and positive feel at the zero position, ensuring that the proper amount of sample is aspirated every time.

Ergonomic Design in all Models

Ergonomically designed handles with finger-hooks ensure effortless pipetting. They feel good and require only a light grip to hold the pipette firmly for precise operation. The finger-hook allows you to rest the hand between each pipetting cycle. Symmetrical design allows you to switch hands occasionally to further reduce stress on long pipetting days.

The LTS LiteTouch System

LTS is the biggest innovation in ergonomic pipetting today. While traditional, conical tip and shaft designs with large sealing areas require high forces to mount and eject tips, the revolutionary LTS System features a cylindrical tip and shaft design that reduces these forces by 85%. By drastically reducing the largest pipetting force, LTS also reduces hand-fatigue and injuries, such as RSIs, commonly associated with pipetting.

Silicone Shock Absorber

Last but not least, the soft silicone shock absorber in RAININ's tip ejector softens impact forces when ejecting tips. It gives extra protection for the thumb and provides a smooth and easy tip ejection.

RAININ TechZone

Pipetting Innovations

RAININ has always been the clear leader in pipette innovation, inventing the first electronic pipette and introducing the first ergonomic pipette system. RAININ has developed a series of innovations and technologies to make pipetting more productive and comfortable, and we continue to do so. This RAININ "TechZone" gives an overview of the innovative technologies used in RAININ Pipettes.

Easy, secure volume setting

The snag-proof design allows rapid volume adjustment, even when wearing gloves. The easy-to-read display lets the user set the volume quickly & precisely to eliminate setting errors. The integrated volume lock prevents accidental volume changes during pipetting.

Quick-release tip ejector

The tip ejector can be removed quickly & easily by lightly pressing the ejector tabs. The positive lock feature ensures the ejector stays securely in place. All RAININ pipettes incorporate quick release tip ejectors which allow easy cleaning.

Robust design, lasting performance

High-quality materials used in all RAININ pipettes ensure years of outstanding performance with lowest out-of-tolerance failures, and low cost of ownership.

Stepper motor

Each RAININ electronic pipette is powered by a stepper motor for high performance & reliability, with extremely fine control. RAININ electronic pipettes can be set in increments of 1/1000 of nominal volume.

Automatic linearity correction

RAININ electronic pipettes feature the innovative automatic linearity correction which uses a patented correction factor to ensure a truly linear response over the entire volume range of the pipette.

Real-time sensing technology

In E-Man Hybrid, the plunger position is continually updated and communicated to the LCD display in real time, giving highly accurate four digit volume settings.

Adjustable-Spacer Multichannels

RAININ's Adjustable-Spacer multichannel manual and electronic pipettes allow quick and easy adjustment of nozzle spacing between 9 and 19 mm, for flexibility and time saving when using different plate formats.

RAININ Ergonomic Innovations

Ergonomic handle, finger-hook
The ergonomic handle and finger-hook on RAININ pipettes ensure effortless pipetting.

Magnetic Assist – Pipet-Lite
A magnet assists the thumb to locate and hold the zero position while reducing heavy springs.

Silicone shock absorber
The shock absorber reduces impact to the thumb.

LTS LiteTouch System
With LTS LiteTouch system, tips mount and eject easily, leading to a significant reduction of tip ejection forces.

RAININ FinePoint® Traditional Tips
RAININ's thin-wall, flexible FinePoint tips seal properly with minimal force on traditional shaft pipettes from RAININ and all major manufacturers.

DID YOU KNOW?

Pipetting is one of the most repetitive tasks in the laboratory.

Over 30% of all workplace injuries are musculoskeletal disorders, including repetitive strain injuries and cumulative trauma disorders (injuries associated with repetition and excessive force).

Most traditional manual pipettes require an average of 4kg of peak plunger force to dispense sample, and 4kg to eject tips.

Forces should not exceed 30% of maximum thumb strength capacity: kg for men, 2.1kg for women.

You are at risk if you pipette more than one hour a day or 300 hours a year, and you use traditional manual pipettes.

Prevention is the key to reducing repetitive strain injuries.

Pipet-Lite™ with Magnetic Assist

The ergonomic masterpiece

Every feature of the RAININ Pipet-Lite has been designed to make it the most ergonomic manual pipette on the market. From handle design to the maximum reduction of plunger forces, this pipette ensures light and smooth operation even after hours of pipetting.

Pipet-Lite	PIPETMAN®
✓ **LTS™ or Traditional.** Pipet-Lite gives you the flexibility of choice to suit your pipetting needs. Select either traditional universal tip/shaft configuration (SL-) for use with universal tips. or LTS™ LiteTouch cylindrical system (L-) for maximum ergonomic benefits. LTS dramatically reduces tip ejection forces, only 0.6kg compared to 4-10kg with other pipettes.	✗
✓ **Volume Setting Lock.** The snag-proof design allows rapid volume adjustment even when wearing gloves. Once the volume is set a turn of the integrated volume lock prevents accidental volume changes. Much better for GLP.	✗
✓ **Ergonomic Design.** This light-weight, ergonomically shaped pipette with finger-hook assures optimal handling comfort even for long pipetting days. Lets you use a lighter grip during pipetting and rest your hand between cycles, reducing fatigue & pipetting errors.	✗
✓ **Low Plunger Force.** The proven "Magnetic Assist" technology offers the lowest plunger forces of any manual pipette in the market. Up to 50% less than in traditional pipettes. Helps you find and hold the zero position before aspiration for consistent sample pick up.	✗
✓ **Lighter Springs and Low Drag Seals** Reduces thumb force.	✗
✓ **Durable, rugged construction.** Stainless steel and quality PVDF ensure fewer out-of-tolerance failures, and give many years of performance with low cost of ownership. Simple maintenance. No lubrication.	
✓ **Silicone Shock Absorber.** The silicone shock absorber in the tip ejector provides extra protection by reducing thumb impact forces when ejecting tips.	✗
✓ **Low Force Tip Ejection.** If chosen in the LTS edition, tip ejection forces are reduced by up to 80%.	✗
✓ **Quick-Release Tip Ejector.** The clip-lock holds the tip-ejector arm firmly in place, yet it allows for easy ejector arm removal just by pressing lightly on the ejector tabs.	✗
✓ **Extensive Model Range** In addition to the standard range, 300µl, 2000µl and 20ml models are available.	✗
✓ **All models specified within 10% of nominal volume** Accuracy and Precision guaranteed across full volume range.	✗

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Pipet-Lite™ Traditional

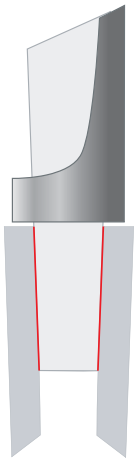
The Best Pipette Choice
For Use With Traditional Tips

Most traditional pipettes require significant plunger force (about 4kg) to operate. Low-drag seals & Magnetic Assist in Pipet-Lite allow the use of light plunger springs. Pipet-Lite SL reduces plunger force by more than 50% compared to other manual pipettes.

Pipet-Lite SL with Traditional Tips TRD

Cat. No.	Volume Range
SL-2	0.1–2 µl
SL-10	0.5–10 µl
SL-20	2–20 µl
SL-100	10–100 µl
SL-200	20–200 µl
SL-300	20–300 µl
SL-1000	100–1000 µl
SL-2000	200–2000 µl
SL-5000	500–5000 µl
SL-10ML	1–10 ml
SL-START	Starter Kit
Starter Kit: SL-20, SL-200, SL-1000 & accessories	

Pipet-Lite SL pipettes use traditional tips.



Pipet-Lite™ with LTS™

Maximum Ergonomic Benefit

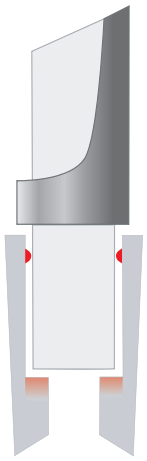
LiteTouch tip ejection system reduces tip ejection forces to 0.6kg.

Tips fit first time everytime, no force required

Pipet-Lite with LTS LTS

Cat. No.	Volume Range
L-2	0.1–2 µl
L-10	0.5–10 µl
L-20	2–20 µl
L-100	10–100 µl
L-200	20–200 µl
L-300	20–300 µl
L-1000	100–1000 µl
L-2000	200–2000 µl
L-5000	500–5000 µl
L-10ML	1–10 ml
L-20ML	2–20 ml
L-START	Starter Kit
Starter Kit: L-20, L-200, L-1000 and accessories	

RAININ LTS tips must be used with LTS pipettes.



STARTER KITS - The Most Economical Way To Buy Your Pipet-Lite

Pipet-Lite™ Traditional Starter Kit

Pipet-Lite SL Pipettes:
SL-20, SL-200, SL-1000

Racks of Traditional Tips:
RT-200F, RT-250, RT-1000

3 x Hang-Ups (HU-M3)
Pipette Holders

Pipet-Lite™ with LTS™ Starter Kit

Pipet-Lite Pipettes:
L-20, L-200, L-1000

Racks of LTS Cylindrical Tips:
RT-L10, RT-L250, RT-L1000

3 x Hang-Ups (HU-M3)
Pipette Holders

RAININ Classic™

Improved traditional pipetting

Based on the look, feel, and handling of classical pipettes, RAININ Classic provides years of reproducible performance. Lighter spring forces, low-drag seals and a shock absorber makes it easier on your hands.

Durable Construction.

Stainless steel and quality PVDF ensure fewer out of tolerance failures, many years of performance with low cost of ownership. Simple maintenance. No lubrication.

Low Plunger Force.

Lighter aspiration and blowout springs reduce pain and injury. Plunger force in RAININ Classic is 5% less than in similar traditional pipettes.

Comfortable Finger-hook.

The ergonomically designed finger-hook allows you to rest the hand and use a lighter grip during pipetting cycles.

Silicone Shock Absorber.

The silicone shock absorber in the tip ejector provides extra protection by reducing impact forces when ejecting tips.

Durable and Rugged.

Like all RAININ pipettes, RAININ Classic is built to give years of solid performance with low out-of-tolerance errors. Its rugged construction is evident when you first pick it up: it feels good in your hand – you know you are holding a thoroughbred.

Modern, hand-friendly ergonomic design.

RAININ Classic incorporates lighter springs and a low-drag seal. Less thumb force is needed, resulting in reduced fatigue, so you can concentrate on your results.The ergonomic handle and finger-hook mean you don't have to grip: hold RAININ Classic loosely while pipetting and relax completely between pipetting cycles. The silicone shock absorber in the tip ejector takes the impact out of tip ejection.

Quick-Release Tip Ejector.

The clip-lock holds the tip-ejector arm firmly in place, yet it allows for easy ejector arm removal just by pressing lightly on the ejector tabs.

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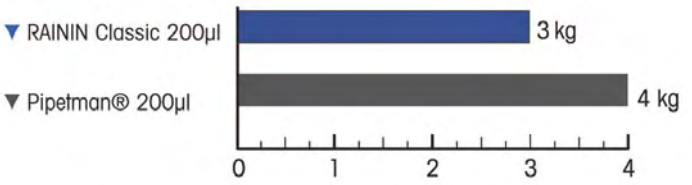
Pipette plunger force comparison



RAININ Classic reduces plunger force by 25% compared to Pipetman.

RAININ Classic Starter Kit

RAININ Classic Pipettes:
PR-20, PR-200, PR-1000

Racks of Traditional Tips:
RT-250, RT-1000

3 x Hang-Ups (HU-M3)
Pipette Holders

RAININ Classic with Traditional Tips

TRD

Cat. No.	Volume Range
PR-2	0.1–2 µl
PR-10	0.5–10 µl
PR-20	2–20 µl
PR-100	10–100 µl
PR-200	20–200 µl
PR-1000	100–1000 µl
PR-5000	500–5000 µl
PR-10ML	1000 µl–10 ml
PR-START	Starter Kit

RAININ Classic pipettes use traditional tips.

EDP™3 Electronic Single Channel Pipette

Benefit from linear pipetting

RAININ's EDP3 masters today's most demanding pipetting tasks. With automatic linearity correction, EDP3 dispenses accurately through the entire volume range. Computer controlled stepper motor eliminates user based variance for maximum precision – always.

One hand does it all.

Easy programming, simple operation, 4-button control

Linearity Correction.

Automatic linearity correction (ALC) for the highest accuracy in dispensing over the working volume range.

Accurate and precise.

Unique micro-stepper motor allows precise settings of 1/1000 of full scale. For a 200 µl model that's a minimum increment of 0.2 µl.

Always ready.

Powerful, rechargeable Li-Ion battery provides over 3000 cycles on a one hour charge; and over 500 cycles after only 10-12 minutes.

Pipet: Selects volume, aspirate and dispense with light-action triggers
Multidispense: Aspirates any volume, EDP3 automatically calculates the number of aliquots to dispense.
Dilute: Diluent, an air gap, and sample are aspirated separately and dispensed together.
Titrate: Dispenses under trigger control to desired endpoint. Total volume shown on display.
Manual: Measures unknown volumes; allows manual operation.
GLP: Operator log (cycles, date, technician ID).
Speed: Up to 10 settings for each mode.
Mix: Mixes by repeated movement of liquid in and out of the tip.
Volume Sequencing: Aspirates &/or dispenses up to 16 preset volumes in pipet, multidispense, & dilute mode.
Cycle Counter: Displays up to 999 pipetting cycles
Sound: Signals when ready to aspirate, when sample is fully dispensed. On/off and volume control.
Fixed Pipetting; Aspirates and dispenses up to 6 preset volumes.

EDP3 with LTS LTS

Cat. No.	Volume Range
E3-10	0.5–10 µl
E3-20	2–20 µl
E3-100	10–100 µl
E3-200	20–200 µl
E3-300	20–300 µl
E3-1000	100–1000 µl
E3-2000	200–2000 µl
E3-5000	500–5000 µl
E3-10ML	1–10 ml
E3-20ML	2–20 ml

RAININ LTS tips must be used with LTS pipettes.

EDP3 with Traditional Tips TRD

Cat. No.	Volume Range
SE3-10	0.5–10 µl
SE3-20	2–20 µl
SE3-100	10–100 µl
SE3-200	20–200 µl
SE3-300	20–300 µl
SE3-1000	100–1000 µl
SE3-2000	200–2000 µl
SE3-5000	500–5000 µl
SE3-10ML	1–10 ml

EDP3 SE model pipettes use traditional tips.

All EDP3 pipettes require a power supply to recharge the battery - See page 21

EDP™1 Electronic Single Channel Pipette

Durable laboratory workhorse

EDP1 is the improved version of our original electronic pipette. Like all RAININ's electronic pipettes, EDP1 eliminates user variance for consistent results, at the push of a button. EDP1 is loved for its ease of use with its full numeric keyboard, as well as the big and easy-to-read display.

Consistent accuracy.

EDP1 electronic pipettes increase accuracy and precision by making piston movements operator independent. The piston moves the correct distance, at the correct speed, user-to-user and sample-to-sample. EDP1 pipettes self-calibrate by resetting the zero piston position at the end of each dispensing sequence.

Simple one-hand operation.

Designed for thumb and index finger operation, EDP1 is easy to use with either hand, even with gloves. The intuitive software allows simple operation without studying a complicated user manual. Pipetting is actuated by pressing the trigger with the index finger, reducing plunging forces by up to 95%.

Easy-to-use keyboard.

Set volumes instantaneously - no scrolling!

Cordless operation, low power consumption.

Power is supplied to the EDP1 pipette by a wall power supply or a rechargeable NiMH (nickel metal hydrid) battery pack. With the battery pack installed, EDP1 will provide up to 1000 full-stroke pipetting cycles.

EDP1 Modes

Pipet: transfers individual liquid samples
Multidispense: transfers equal, multiple aliquots from a single volume
Titrate: partially dispenses under trigger control to desired endpoint
Dilute: picks up diluent, air, and sample separately and dispenses them together
Mix: mixes by repeated movement of liquid in and out of the tip
Volume Sequencing: picks up and dispenses up to 12 stored volumes
Measure: determines the volume of aspirated sample

EDP1 with LTS

Cat. No.	Volume Range
E1-10	0.5–10 µl
E1-20	2–20 µl
E1-100	10–100 µl
E1-200	20–200 µl
E1-300	20–300 µl
E1-1000	100–1000 µl
E1-2000	200–2000 µl
E1-5000	500–5000 µl
E1-10ML	1000 µl–10 ml
E1-20ML	2000 µl–20 ml
Power Accessories	
6101-049	Rapid Charge Stand

RAININ LTS tips must be used with LTS pipettes.

EDP1 with Traditional Tips

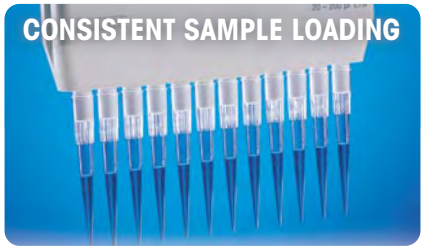
Cat. No.	Volume Range
SE1-10	0–10 µl
SE1-20	2–20 µl
SE1-100	10–100 µl
SE1-200	20–200 µl
SE1-300	20–300 µl
SE1-1000	100–1000 µl
SE1-2000	200–2000 µl
SE1-5000	500–5000 µl
SE1-10ML	1000 µl–10 ml
Power Accessories	
6101-049	Rapid Charge Stand

EDP1 pipettes use traditional tips.

Multichannel Pipettes with LTS™

Consistent sample pickup, all channels

LTS tip and shaft design provides an excellent seal without using nozzle o-rings. The LTS tips are easily mounted & ejected, increasing productivity with absolutely consistent sampling.



LTS cylindrical tips provide a leak-free and reliable seal without hand tightening.

No O-rings, no breakage, no maintenance, no sample contamination, no problems.

Consistent sample pickup

Unique LTS system ensures consistent sample pickup and improves accuracy and precision

Leak-free seal – every time

The LTS cylindrical shaft and tip with single-point seal provides an excellent seal without O-rings.

Fastest tip loading

Load tips in two seconds. No rocking or hand tightening is required, increasing reliability.

12-channel easier than 8

RAININ 1-channel pipettes are even easier to use than traditional 8-channel pipettes!.

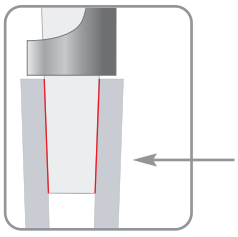
Electronic models – automate!

Multidispense, timed aliquots, and mixing modes eliminate slow manual procedures.

NO HAND TIGHTENING, NO INCONSISTENCIES, NO HASSLE - PURE PERFORMANCE

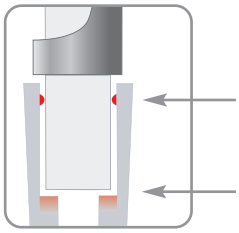
Multichannel Problems

Traditional conical shafts and tips require high insertion force (up to 10kg), plus rocking or hand-tightening to seal. This leads to inconsistent sample loading. Additionally, some pipettes use nozzle o-rings, which are a weak point and need constant cleaning.



RAININ's Unique LTS Solution

LTS cylindrical tips mount and eject easily, creating an absolutely reliable seal on each channel with minimum force (only about 0.5kg for 8-channel pipettes). This provides consistent sample loading without rocking or hand-tightening. No nozzle o-rings mean no breakage, no maintenance, and no contamination.



Pipet-Lite™ Manual Mutichannel Pipette

Best for routine 96-well plate work

Thanks to the LTS LiteTouch System, these pipettes offer absolutely consistent sample pick-up on all channels. No hand-tightening, no inconsistencies, no hassle: Pure performance.

Top Consistency.

LTS LiteTouch System provides absolutely consistent sample pick-up on all channels.

Easy Volume Adjustment.

Including volume lock.

Low Plunger Force.

Low-drag seals and "Magnetic Assist".

Ergonomic Design.

Light-weight, ergonomically shaped with finger-hook.

Silicone Shock Absorber.

Extra thumb protection.

Pipet-Lite Multichannel with LTS LTS

Cat. No.	Volume Range
8-Channel	
L8-10	1–10 µl
L8-20	2–20 µl
L8-50	5–50 µl
L8-200	20–200 µl
L8-300	20–300 µl
L8-1200	100–1200 µl
12-Channel	
L12-10	1–10 µl
L12-20	2–20 µl
L12-50	5–50 µl
L12-200	20–200 µl
L12-300	20–300 µl
L12-1200	100–1200 µl
16-Channel (2x8)	
L2X8-20	2–20 µl
L2X8-100	10–100 µl
24-Channel (2x12)	
L24-20	2–20 µl
L24-100	10–100 µl

ABSOLUTELY CONSISTENT SAMPLE PICK UP ON ALL CHANNELS

EDP™3-Plus Mutichannel Pipette

Ideal for high-production environments

Stepper motor eliminates user variance and ensures maximum precision – always, and user-independently. LTS provides absolutely consistent sample pick-up on all channels. No hand-tightening, no inconsistencies, no hassle: Pure performance.

Ultimate Consistency.

Absolutely consistent sample pick-up on all channels. No user variances.

Ultimate Linearity.

Top linearity throughout the entire volume range thanks to Automatic Linearity Correction.

Ultimate Comfort.

Ergonomic design and tip ejection force reduction with LTS LiteTouch-System

Ultimate performance.

Powerful battery for up to 3000 cycles on one charge.

EDP3 Plus Multichannel with LTS

Cat. No.	Volume Range
8-Channel	
E8-10	1–10 µl
E8-20	2–20 µl
E8-50	5–50 µl
E8-200	20–200 µl
E8-300	20–300 µl
E8-1200	100–1200 µl
12-Channel	
E12-10	1–10 µl
E12-20	2–20 µl
E12-50	5–50 µl
E12-200	20–200 µl
E12-300	20–300 µl
E12-1200	100–1200 µl
16-Channel (2x8)	
E2X8-20	2–20 µl
E2X8-100	10–100 µl
24-Channel (2x12)	
E24-20	2–20 µl
E24-100	10–100 µl
Power Accessories*	
E3-WPS	Wall Power Supply
E3-RCS	Rapid Charge Stand

Long-life, rechargeable Li-Ion battery included. Either a Rapid Charge Stand or Wall Power Supply must be purchased to charge the EDP3 battery.

See Page 21

Adjustable Spacer Pipettes

Available in Manual and Electronic

Ideal for routine work in Genomic, Proteomic, Tissue culture and Cell culture applications, this pipette can change the format spacing from 4-well to 96-well. Just a twist is all it requires to change spacing!

Adjustable Nozzle Spacing.
Continuously variable spacing mechanism for maximum flexibility & quick change.

Comfortable Adjustment Wheel
Precise and lockable adjustment wheel.

Reproducible Nozzle Spacing
Easy-to-read spacing marks ensure proper setting without guessing.

Consistent
Absolutely consistent sample pick-up and easy tip mounting and ejection with LTS.

JUST A TWIST IS ALL IT REQUIRES TO CHANGE SPACING

Pipet-Lite™ Adjustable Spacer

Pipet-Lite Adjustable Spacer with LTS

Cat. No.	Volume Range
6-Channel	
LA6-300	20–300 µl
LA6-1200	100–1200 µl
8-Channel	
LA8-50	5–50 µl
LA8-300	20–300 µl
LA8-1200	100–1200 µl

RAININ LTS tips must be used with LTS pipettes.

EDP3 Adjustable Spacer

EDP3 Adjustable Spacer with LTS

Cat. No.	Volume Range
6-Channel	
EA6-300	20–300 µl
EA6-1200	100–1200 µl
8-Channel	
EA8-50	5–50 µl
EA8-300	20–300 µl
EA8-1200	100–1200 µl
Power Accessories*	
E3-WPS	Wall Power Supply
E3-RCS	Rapid Charge Stand

RAININ LTS tips must be used with LTS pipettes.

Pipetting Accessories

Protect your investment

RAININ accessories protect your high-performance pipettes and facilitate their use. From pipette storage options, energy supplies for electronic pipettes, to practical reservoirs, these accessories help you to make the most of your pipettes.

Hang-Ups™

Holds RAININ pipettes, Pipetman®, Microman® and Distriman® safely. Available in two styles:

HU-M3
Individual Hang-Ups with magnets.

Adhesive disks included for mounting to non-ferrous surfaces.3/pkg.

HU-S3
Shelf Hang-Ups without magnets.

Mounts to lab shelf with clamp and adjustable screws.3/bracket.

Pipette Stands

GR-3
Pipette Rack

Holds 3 RAININ pipettes with finger-hook, also Pipetman

CR-7
RAININ Carousel Stand

Holds 7 Pipet-Lite, Pipet-Plus, Pipetman, Microman, Distriman. Will hold EDP3 pipettes when used with Adapter (next page). Rotates for easy access. Sturdy base won't tip over.

Filters for Macro Pipettes

Cat. No.	Description	
6190-164	5 and 10 mL filters for E3, SE3, L, SL,	100/pkg
6190-165	5 and 10 mL filters for E3, SE3, L, SL,	1000/pkg
6190-221	20 mL filters for E3, SE3, L, SL,	100/pkg
6190-222	20 mL filters for E3, SE3, L, SL,	500/pkg

PIPETMAN, MICROMAN and DISTRIMAN are registered trademarks owned by Gilson SAS

Accessories for Electronic Pipettes

Either a Wall Power Supply or Rapid Charge Stand MUST be purchased to charge the EDP3 Battery.

E3-RCS
Rapid Charge StandFor EDP3

Stores up to three EDP3 pipettes and recharges them sequentially. Can be mounted on a wall.

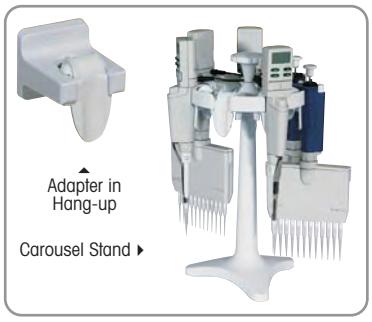
E3-WPS
Wall Power Supply For EDP3

Recharges EDP3 in about an hour. Corded operation while recharging, even without battery.

6101-049
Rapid Charge Stand For EDP1

Convenient stand charges the EDP1 Battery quickly. (about 90 minutes). Works with EDP-Plus.

Accessories for Multichannel Pipettes



Adapter for Hang-Ups and Carousel Stand

Ideal for multichannel and EDP3 electronic pipettes, the adapter slips easily into a Hang-Up (HU-M3) or Carousel Stand (CR-7). No tools are required. 3 per package.

Reagent reservoirs

Sterile polypropylene reagent reservoirs for use with single and multichannel pipettes. Reservoirs are stable & stackable, available with or without lid. Large 75 ml capacity with easy-to-read calibration markings.

PROTECT YOUR INVESTMENT
MAKE THE MOST OF YOUR PIPETTES

Cat. No.	Description
Reagent Reservoirs	
RV-L25	25 reservoirs 75 ml with lids; presterilized, packaged 5 bags of 5 each
RV-050	50 reservoirs 75 ml without lids; presterilized, packaged 10 bags of 5 each
Hang-Ups, Carousel, and Adapters	
HU-A3	Adapter
HU-M3	Hang-Ups
CR-7	Carousel Stand
Power Supplies	
6101-049	Rapid Charge Stand for EDP1
E3-RCS	Rapid Charge Stand for EDP3
E3-WPS	Wall Power Supply for EDP3

Liquidator™ 96

Simultaneous 96-well manual pipetting

Liquidator 96 is a powerful personal research tool for all laboratories. Accurate and efficient, Liquidator 96 maximizes workflow, without the need for complicated programming or dedicated technician time. Incredibly fast, Liquidator 96 adds outstanding quality features to high-throughput pipetting, with many applications.

High-Throughput.
Medium to high-throughput applications.

Flexible.
96-well and 384-well plates with adapter.

Minimal footprint.
Fits any lab bench or laminar flow cabinet.

Replicating / dispensing plates.
Expression profiling or yeast two-hybrid systems.

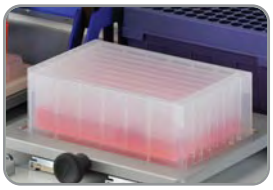
Filling, washing, mixing plates.
ELISA, protein crystallization, screenings.

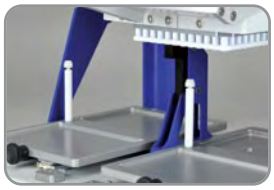
Dispensing buffers, master mixes.
PCR, dilution series, assays. Removing liquids from plates. Changing media in cultures.

Liquidator 96 LTS Tips
Specially designed for Liquidator 96

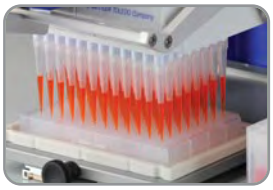
- RAININ BioClean tips: no contamination
- Perfectly straight, flawless tips
- Small seal area, positive stop for leak-free sealing
- Consistent pick-up across all channels
- Sterile or non-sterile, filtered or non-filtered
- Easy tip mounting: LTS with positive stop
- Totally stable: base of rack locks into tray

Liquidator Accessories


Deep-well 8-section reservoir


Height Adjustment Posts

96-well Tissue Culture Plate


384-well Adapter Plate Stage

FASTER THAN MANY ROBOTS

Speed your work, save time and money.

Fill 96 wells in less than 20 seconds, fill or replicate 25 plates in less than 10 minutes. Recoup your investment in months with faster throughput, fewer errors, and many applications:

- Mother-daughter replication
- Reformatting from 96 to 384 well
- Washing steps
- Dilutions

Vital for time critical enzyme-based assays: all 96 reactions can be started and stopped simultaneously!

Simple to use.

No complicated software, no programming, no electricity. Always ready to use by everyone in the lab.

Flexible, familiar operation.

Works like a conventional manual pipette. Manual pipetting from any kind of multi-well plate, reservoir, or deep-well container, into 96 or 384 well plates. Fits anywhere – benchtop or in a laminar flow cabinet.

Ergonomic, hand-friendly.

Counterbalanced design, large controls, and Liquidator LTS tips result in very low user forces. Ejecting all 96 tips at once is particularly easy.

Filling, washing, mixing plates.

ELISA, protein crystallization, screenings.

Dispensing buffers, master mixes.

PCR, dilution series, assays. Removing liquids from plates. Changing media in cultures.

Technical Data

- Volume range 5–200µl, in 1µl increments
- Three SBS footprint operating positions
- Settable immersion depth for each position
- Small footprint, 2.5 sq. ft
- Weight 14 kg (31lb)
- Dimensions 15 x 16 x 13 inches

Liquidator 96

Cat.-No.	Description
LIQ-96-200	Liquidator 96, 5-200 µl
Liquidator LTS Tips	
LQR-200	960 tips in 10 racks, 200 µl
LQR-200S	960 tips in 10 racks, 200 µl, presterilized
LQR-200F	960 tips in 10 racks, 200 µl, filter
Accessories	
LIQ-AP	Height adjustment posts
LIQ-384-PA	384-well adapter plate stage, SBS footprint
LIQ-TRAY	Deep-well 8-section reservoir
96-CPF-1CS	96-well tissue culture plate, flat-bottom, sterile, with lid, pkg 100
96-CPR-1CS	96-well tissue culture plate, round-bottom, round-bottom, sterile, with lid, pkg 100
96-CPV-1CS	96-well tissue culture plate, v-bottom, sterile, with lid, pkg 100

Liquidator LTS tips must be used with Liquidator 96

Pipette Specifications

Pipet-Lite and RAININ Classic

Model	Set Volume µl	Increment µl	Accuracy %	Accuracy µl (±)	Precision %	Precision µl (≤)
2 µl	0.2	0.002	12	0.024	6	0.012
		1.0		2.7	0.027	1.3 0.013
		2.0		1.5	0.030	0.7 0.014
10 µl	1	0.02	2.5	0.025	1.2	0.012
		5		1.5	0.075	0.6 0.03
		10		1	0.1	0.4 0.04
20 µl	2	0.02	7.5	0.15	2	0.04
		10		1.5	0.15	0.5 0.05
		20		1	0.2	0.3 0.06
100 µl	10	0.2	3.5	0.35	1	0.1
		50		0.8	0.4	0.24 0.12
		100		0.8	0.8	0.15 0.15
200 µl	20	0.2	2.5	0.5	1	0.2
		100		0.8	0.8	0.25 0.25
		200		0.8	1.6	0.15 0.3
300 ul	30	0.5	2.5	0.75	1.0	0.3
		150		0.8	1.2	0.25 0.375
		300		0.8	2.4	0.15 0.45
1000 µl	100	2	3	3	0.6	0.6
		500		0.8	4	0.2 1
		1000		0.8	8	0.15 1.5
2000 µl	200	2	3	6	0.6	1.2
		1000		0.8	8	0.2 2
		2000		0.8	16	0.12 2.4
5000 µl	500	5	2.4	12	0.6	3
		2500		0.6	15	0.2 5
		5000		0.6	30	0.16 8
10 ml	1 ml	20	5	50	0.6	6
		5 ml		1	50	0.2 10
		10 ml		0.6	60	0.16 16
20 ml	2 ml	20	5	100	0.6	12
		10 ml		1	100	0.2 20
		20 ml		0.6	120	0.16 32

EDP1 and EDP3-Plus

Model	Set Volume µl	Increment µl	Accuracy %	Accuracy µl (±)	Precision %	Precision µl (≤)
10 µl	1	0.01	2.5	0.025	1.2	0.012
	5		1.5	0.075	0.6	0.03
	10		1.0	0.1	0.4	0.04
20 µl	2	0.02	7.5	0.15	2	0.04
	10		1.5	0.15	0.5	0.05
	20		1.0	0.2	0.3	0.06
100 µl	10	0.1	3.5	0.35	1	0.1
	50		0.8	0.4	0.24	0.12
	100		0.8	0.8	0.15	0.15
200 µl	20	0.2	2.5	0.5	1	0.2
	100		0.8	0.8	0.25	0.25
	200		0.8	1.6	0.15	0.3
300 ul	30	0.2	2.5	0.75	1	0.3
	150		0.8	1.2	0.25	0.373
	300		0.8	2.4	0.15	0.45
1000 µl	100	1	3	3	0.6	0.6
	500		0.8	4	0.2	1
	1000		0.8	8	0.15	1.5
2000 µl	200	2	3	6	0.6	1.2
	1000		0.8	8	0.2	2
	2000		0.8	16	0.12	2.4
5000 µl	500	5	2.4	12	0.6	3
	2500		0.6	15	0.2	5
	5000		0.6	30	0.16	8
10 ml	1 ml	10	5	50	0.6	6
	5 ml		1	50	0.2	10
	10 ml		0.6	60	0.16	16
20 ml	2 ml	20	5	100	0.6	12
	10 ml		1	100	0.2	20
	20 ml		0.6	120	0.16	32

Multichannel Manual and Electronic Pipettes

Model	Set Volume µl	Increment µl (man)	Increment µl (elec)	Accuracy %	Accuracy µl (±)	Precision %	Precision µl (≤)
10 µl	1	0.02	0.01	2.5	0.025	1.2	0.012
	5			1.5	0.075	0.6	0.03
	10			1.0	0.1	0.4	0.04
20 µl	2	0.02	0.02	7.5	0.15	2.0	0.04
	10			1.5	0.15	0.5	0.05
	20			1.0	0.2	0.3	0.06
50 µl	5	0.05	0.05	3.5	0.18	1.5	0.075
	25			1.2	0.3	0.4	0.1
	50			0.8	0.4	0.2	0.1
200 µl	20	0.2	0.2	2.5	0.5	1.0	0.2
	100			0.8	0.8	0.25	0.25
	200			0.8	1.6	0.15	0.3
300 µl	30	0.5	0.2	2.5	0.75	1.0	0.3
	150			0.8	1.2	0.25	0.375
	300			0.8	2.4	0.15	0.45
1200 µl	100	2	1	3.6	3.6	0.6	0.6
	600			0.8	4.8	0.2	1.2
	1200			0.8	9.6	0.15	1.8

Pos-D

Model	Volume µl	Increment µl	Accuracy %	Accuracy µl (±)	Precision %	Precision µl (≤)
10 µL	1	0.02	9.0	0.09	3.0	0.03
		5	2.0	0.10	0.6	0.03
		10	1.5	0.15	0.6	0.06
25 µL	3	0.02	8.3	0.25	2.7	0.08
		10	2.7	0.27	0.8	0.08
		25	1.2	0.30	0.4	0.10
50 µL	20	0.02	1.7	0.34	1.0	0.20
		50	1.4	0.70	0.6	0.30
100 µL	10	0.2	5.0	0.50	2.0	0.20
		50	1.5	0.75	0.6	0.30
		100	1.0	1.00	0.4	0.40
250 µL	50	0.2	3.0	1.50	0.6	0.30
		100	1.7	1.70	0.3	0.30
		250	1.0	2.50	0.2	0.50
1000 µL	100	2	3.0	3.00	1.6	1.60
		500	1.0	5.00	0.5	2.50
		1000	0.8	8.00	0.4	4.00

Quick Guide

RAININ Manual Pipettes

FEATURES	Pipet-Lite	RAININ Classic	Pos-D
Air-displacement	●	●	●
Positive-displacement	●	●	●
Continuously-adjustable	●	●	●
Uses LTS cylindrical tips	●	●	Capillaries/Pistons
Uses traditional conical tips	● (SL-)	●	Capillaries/Pistons
Pipet force reduction w/ LTS	70%	Non LTS, 25%	●
Volume range	0.1 µl-20 ml	0.1 µl-10 ml	0.5 µL-1 ml
Volume lock	●	●	●
Volume setting	Digital	Digital	Digital
Real-time pipetting	●	●	●
Electronic display	●	●	●
Advanced modes	●	●	●
Cycle counter	●	●	●
Finger-hook	●	●	●
Plunger aspiration	●	●	●
Trigger aspiration	●	●	●
Magnetic assist/latch	● (Assist)	●	●
Aspiration rate controller	●	●	●
Quick-release tip ejector	●	●	●
STANDS AVAILABLE			
HU-M3	●	●	●
HU-S3	●	●	●
CR-7	●	●	●
GR3	●	●	●

● Available ● Not available

RAININ Electronic Pipettes

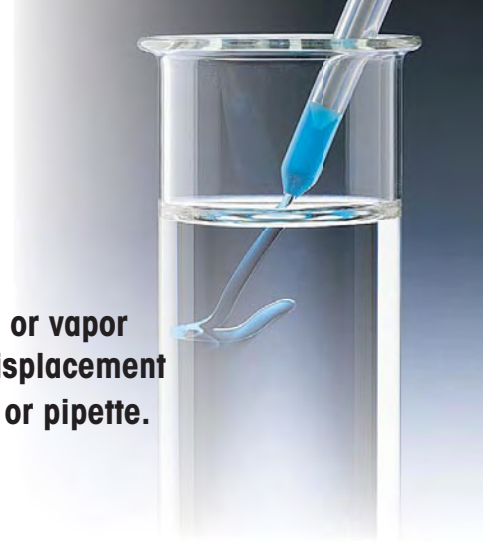
FEATURES		EDP1	EDP3-Plus
Pipet	Transfers individual liquid samples	●	●
Multidispense	Transfers equal, multiple aliquots from a single volume	●	●
Dilute	Diluent & sample are aspirated separately & dispensed together	●	●
Titrate	Partially dispenses under trigger control to desired endpoint	●	●
Manual	Measures unknown volumes; allows manual operation	Measures only	●
GLP	Supplies operator log (cycles, date, technician ID)	●	●
Speed	Up to 10 settings for each mode	●	●
Mix	Repeated movement of two samples in and out of tip	●	●
Sequence	Aspirate and/or dispense preset volumes in pipet, multidispense, and dilute modes	●	●
Cycle counter	Displays number of samples dispensed	●	●
Sound	Tone signals when ready to aspirate and when sample is fully dispensed	●	●
Fixed pipetting	Aspirate and dispense up to 6 preset volumes	●	●
Autopace	Automatic aliquot dispensing with adjustable time intervals between 0.1 and 25 seconds	●	●
GENERAL INFORMATION			
Keyboard		Full numeric	4 keys
Number of volume settings		1000	1000
Automatic linearity correction		●	●
Interchangeable liquid ends		●	●
Triggers		Single, finger-pull	Dual, thumb push
Finger-hook		●	●
Battery included		●	●
Battery life before recharging (depends on usage & pipette volume)		1000 cycles	3000 cycles
Rapid charge stand		Optional	Optional*
Wall power supply		Included	Optional*
Operate with power cord		●	●

● Available ● Not available

* Either a Rapid Charge Stand or a Wall Power Supply is required to recharge the EDP3 battery.

Pos-D™ Positive Displacement Pipette

Problem-free pipetting of problem liquids



Pos-D is specially suited for liquids with high densities, viscosities or vapor pressures. Given the disposable capillaries and pistons, positive displacement absolutely eliminates cross-contamination from aerosols, samples or pipette.

Hand-friendly.

Pos-D rests in your hand while you work – no need to grip! The display faces you, so no twisting wrist or pipette to set or read volume. Natural feel, fits comfortably in your hand.

Easy to load.

Pre-assembled, presterilized capillaries in racks.

No aerosol contamination.

No air between the liquid sample and the piston prevents formation of aerosols and protects samples from instrument contamination.

Presterilized and racked capillaries

Sterilized by e-beam radiation.

Get the security of assembled, presterilized, and racked capillaries and pistons for almost the same price or less than non-sterile capillaries.

Easy to pick up and eject.

Assembled and racked by a robotic process without human contact, RAININ capillaries are easy to use and also fit Gilson Microman.

Prevent sample carryover.

Disposable capillaries and pistons provide absolute protection against cross contamination.

Color-coded racks and pipette buttons.

For convenience, the plunger button tops on each of the six volume ranges of the Pos-D pipette match the accent color of the appropriate capillary-piston rack.

Capillaries and Pistons

Cat. No.	Volume Range
MR-10	0.5–10 µl
MR-25	3–25 µl
MR-50	20–50 µl
MR-100	10–100 µl
MR-250	50–250 µl
MR-1000	100–1000 µl

Pos-D pipettes

Cat. No.	Description
C-10	3 racks of 60 each, presterilized
C-25	3 racks of 60 each, presterilized
C-50	3 racks of 60 each, presterilized
C-100	3 racks of 60 each, presterilized
C-250	3 racks of 60 each, presterilized
C-1000	3 racks of 60 each, presterilized

AutoRep™ E

Adjustable electronic repeater

Speed up long pipetting series, precisely and fatigue-free. Wide selection of easy-to-exchange syringes ensures optimal performance on any given volume from 1µl – 50ml. Encode syringes recognized by AutoRep.

Reduces repetitive strain injuries.

AutoRep™ E virtually eliminates all forces contributing to repetitive strain injuries often experienced in multi-dispense pipetting.

Three modes for flexibility.

Dispensing: Step counter displays volume.
Auto-Dispensing: Learns your pace and continues at this same pace. No time-interval programming.
Pipetting: Positive-displacement syringe.

Rechargeable battery eliminates downtime.

Fully charge the AutoRep™ E in only 2.5hrs. The no-memory, no-maintenance NiMH battery pack may be charged in the same base while another pack is used.

AutoRep™ M
Manual Dispenser

AutoRep™ Electronic and Manual

Cat. No.	Description
AR-E1	AutoRep E
AR-BA	Extra NIMH Battery Pack
AR-M2	AutoRep M

Includes battery pack, recharging base, AC adapter, one each Encode Syringe Tip: 0.5, 1.25, 2.5, 5, 12.5ml

Encode™ Syringes for AutoRep E and M

- AutoRep E displays Encode syringe volume automatically
- Ideal for viscous or high vapor pressure liquids

FAST, PRECISE AND FATIGUE FREE

Encode Syringe Tips

Cat. No.	Maximum capacity	Quantity	Type
ENC-100	0.1ml	100	
ENC-100S	0.1ml	100	Sterile
ENC-500	0.5 ml	100	
ENC-500S	0.5 ml	100	Sterile
ENC-1250	1.25 ml	100	
ENC-1250S	1.25 ml	100	Sterile
ENC-2500	2.5 ml	100	
ENC-2500S	2.5 ml	100	Sterile
ENC-5ML	5 ml	100	
ENC-5MLS	5 ml	100	Sterile
ENC-12ML	12.5 ml	100	
ENC-12MLS	12.5 ml	100	Sterile
ENC-25ML	25 ml*	50	
ENC-25MLS	25 ml*	25	Sterile
ENC-50ML	50 ml*	25	
ENC-50MLS	50 ml*	25	Sterile
ENC-SET Encode Tip Set, Non-sterile, 20 each: 0.5, 1.25, 2.5, 5, 12.5 ml			
ENC-10ADP Adapter for 25 ml and 50 ml, Non-sterile, 10/pkg			
ENC-ADPS Adapter for 25 ml and 50 ml, Sterile, individually-wrapped, 5/pkg			

* Includes one adapter. Sterile syringe tips are endotoxin-free, individually wrapped.
Catalog numbers can be combined for discount.

GlassMaster™ & Turbo

Pipet Controller

Weighs only 180 grams.

Pistol-grip to hold the pipet for use in a laminar flow or biological safety cabinet. Uses all types of disposable pipets from 1 to 100ml. Turbo model for faster operation with 25, 250 and 100ml pipettes.

Protection from aerosols.

Supplied with 0.45 and 0.2µm hydrophobic filters for protection against contamination during aspiration and accidental entry of liquids into the mechanism.

3 speeds for precise control.

Three aspirate and dispense speeds with two finger triggers.

Portable 8-hour operation.

GlassMaster operates for approximately eight hours after recharging. Can be used while re-charging.

THE LIGHTEST PIPET CONTROLLER AVAILABLE.
PROTECTS AGAINST CONTAMINATION

GlassMate™

Pipet Filler

Silicone bulb, thumb lever control. Mini-squeeze control for blowout pipets. Supplied with filter and color-coded pipet cones. For all types of pipets from 1 to 100ml.

Pipette Controllers

Cat. No.	Description
GM-100	GlassMaster (1–100 ml)
GMT-100	GlassMate Pipet Filler (1–100 ml), incl. 4 cones
GM-045	Filter Set, 0.45 µm, Blue, 5/pkg
GM-020	Filter Set, 0.2 µm, Clear 5/pkg
GM-PH	Silicone Pipet Holder
GM-NC	Nose Cone
GM-NCY	Nose Cone for Turbo (yellow)
GM-B	Replacement Battery for GlassMaster, 2 each

GlassMaster is supplied with a bench stand, spare hydrophobic filters and charging unit.

RP-1™ Digital Peristaltic Pump

Versatile laboratory workhorse

RAININ's RP-1 digital peristaltic pump has been designed specifically for laboratories with high requirements for precision, steady flow rates, and minimal pulsation. Pump speed is precisely controlled by state-of-the-art microprocessor and stepper motor technology.

Stepper-motor technology.

A high-torque stepper motor provides the action. Coupled directly to the motor, the pump head rotates at a continuously adjustable speed between 0.01 rpm and 48rpm, in either direction.

Interchangeable heads.

Interchangeable pump heads with one, two, four, or eight channels can be installed in less than a minute.

10 stainless steel rollers minimize pulsation.

Ten precision rollers – five always in contact with tubing – minimize pulsation, at pressures up to 4.6 bar.

Tubing compression adjustment greatly reduces wear & tear

Channels are independently adjustable, and different tubing diameters can be used on each channel. Tubing can be installed while pump is running.

Quiet. .

RP-1 runs quietly at pressures up to 4.6 bar.

VERSATILE LABORATORY WORKHORSE

RP-1 Pump

Cat. No.	Description
7103-051	Single-Channel Pump, Complete
7103-052	Two-Channel Pump, Complete
7103-054	Four-Channel Pump, Complete
7103-058	Eight-Channel Pump, Complete
7103-061	Single-Channel Head
7103-062	Two-Channel Head
7103-064	Four-Channel Head
7103-068	Eight-Channel Head
7103-050	Drive Module Only

Supplied with sample tubing (1 each 39-621, 39-625, 39-628).

Tubing

Cat. No	ID (mm)	Max Flow (ml/min)	Color Code
Silicone:	(14 inches long) Pkg of 6		
39-660	0.25	0.26	Orange/Blue
39-661	0.38	0.60	Orange/Green
39-662	0.50	0.95	Orange/Yellow
39-663	0.63	1.5	Orange/White
39-664	0.76	2.0	Black
39-665	1.52	7.4	Yellow/Blue
39-666	2.29	15.4	Purple/Black
39-667	2.80	20.6	Purple/White
Polyvinyl Chloride: (14 inches long) Pkg of 12			
39-620	0.25	0.33	Orange/Blue
39-621	0.38	0.66	Orange/Green
39-622	0.50	1.13	Orange/Yellow
39-623	0.63	1.6	Orange/White
39-624	0.76	2.2	Black
39-625	1.52	8.3	Yellow/Blue
39-626	2.29	17.2	Purple/Black
39-627	2.80	24.6	Purple/White
39-628	3.16	28.2	Black/White

RAININ's Tip Manufacturing Facility

Designed to deliver the cleanest tips

A clean manufacturing process designed to reduce the risks of contamination is the only way to ensure clean pipette tips will be delivered to every laboratory. This involves implementing these critical procedures and controls at the tip production facility.

Staff procedures and training.

All RAININ manufacturing personnel wear masks, gloves, and hair nets to reduce the risk of introducing contamination.

Automated material handling.

Fully-automated material handling process feeds virgin polypropylene material from stainless steel silos directly to each molding machine.

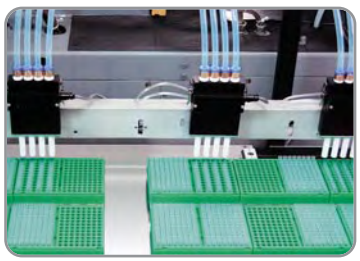
Clean room environment.

Over 20,000 sq. ft. of clean rooms specially designed for tip production and packaging. HEPA filters and positive pressure ensure contaminants do not enter the tip production area.

Certification.

Filtered and presterilized bioclean tips are gamma-irradiated and include a certificate.

PROTECT SAMPLE INTEGRITY



Clean pipette tips are critical in life science research.

To ensure high quality lab results, tips coming into contact with samples must be free of DNase, RNase, DNA, pyrogen and adenosine triphosphate (ATP). Understanding these typical sample contaminants and taking precautionary measures to reduce or eliminate them at their source is vital to protecting sample integrity.

Contamination originates both in and out of the lab.

Human contact is the primary source of contamination. Poor handling procedures, such as not using protective gloves or inadvertently exposing tips to other contamination sources in the laboratory, can compromise tip cleanliness. The manufacturing process and tip packaging environment is another potential contamination source that should not be overlooked.

How can contaminants be reduced or eliminated?

Laboratory personnel typically employ a set of procedures to assure sources of contamination in the lab are minimized. But because sample contaminants can originate outside the lab, it is important to evaluate what controls have been put into place at the production level, to assure that possible risk factors have been reduced or eliminated before the product arrives in the lab.

BioClean™ Tips TechZone

Contamination-free performance

RAININ high-grade BioClean tips ensure top pipetting performance through innovative design and high-quality production. Manufactured under cleanroom conditions, these flawless tips are 100% contamination-free, preventing experiment inconsistencies and failures.

bioclean™

BioClean production – No Contamination

To ensure high quality lab results, tips must be free of DNase, RNase, DNA, Pyrogen & adenosine triphosphate (ATP). RAININ puts great focus on BioClean production by eliminating human contact wherever possible. Bioclean filter and presterilized tips are gamma irradiated & certified free of DNase, RNase, DNA, Pyrogens and ATP. A test protocol is included in each package.

Perfect Production – Flawless Tip Geometry

Virgin polypropylene material and state-of-the-art manufacturing result in flawless RAININ tips. No deformation, cracking, flash, just perfect form. This is your guarantee of best consistency and performance.

FinePoint – Thin walls for Top Performance

Continuous tapering and thin-wall construction give FinePoint tips greater flexibility and softer feel than standard tips. Wall thickness at the tip orifice is critical, as droplets will cling to tip surfaces. The thin-walled orifice of RAININ tips makes it easy to touch off the last drop of each sample dispensed.

Ecological Design

Innovative packaging solutions for tip rack refilling to reduce plastic waste at the source.

LTS LiteTouch System

This icon indicates RAININ LTS tips for use with RAININ LTS pipettes.

Traditional (universal-fit) tips

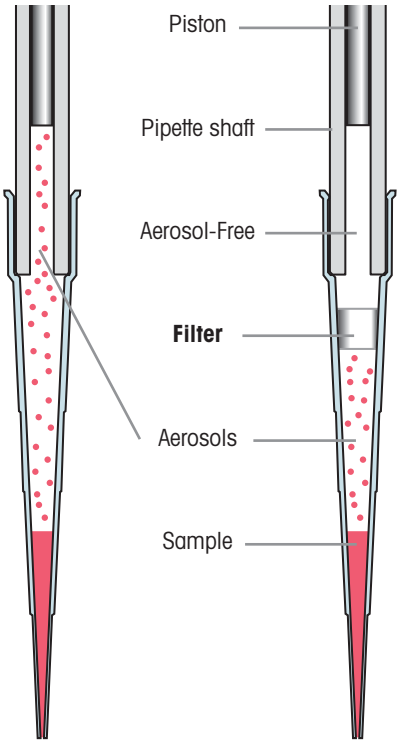
This icon indicates RAININ tips for use with RAININ, Pipetman, and other traditional universal-fit pipettes.

PIPETMAN, MICROMAN and DISTRIMAN are registered trademarks owned by Gilson SAS

Aerosol Resistant Tips

Protection against aerosol contamination

RAININ's Aerosol Resistant tips are the best choice for preventing aerosols and liquids in the tip from reaching & contaminating the pipette shaft. Ideal for PCR use, tissue culture, genetic studies, & forensic applications.



Without Filter **With Filter**

Hydrophobic filter eliminates contamination

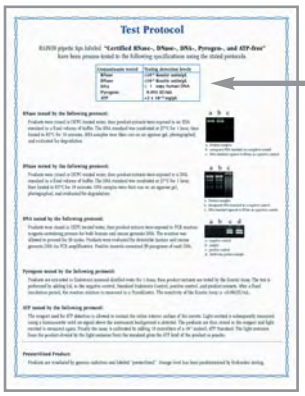
Hydrophobic filter forms a barrier against aerosols and liquids, eliminating potential sample and pipette cross-contamination that could jeopardize results.

Pure polyethylene, no additives, no contaminants

Filters in RAININ aerosol-resistant tips are an extremely strong inert matrix molded from pure virgin polyethylene that does not flake or shed particles. Average pore size of 20 microns prevents aerosol passage but does not restrict air flow. No additives which could contaminate samples.

Certification

Filtered and presterilized bioclean tips are gamma radiated to ensure the packaged product is free of bio-burden contamination. Each tip lot is process tested to specifications shown here and labeled "Certified free of DNase, RNase, DNA, Pyrogen, and ATP." A test protocol certificate is included in each package.


Test Protocol

Contaminants Tested	Testing Detection Levels
RNase	$\leq 10^{-9}$ Kunitz units/µl
DNase	$\leq 10^{-7}$ Kunitz units/µl
DNA	<1 copy human DNA
Pyrogens (LAL test)	0.001 EU/ml
ATP	$<10^{-12}$ mg/µl

LTS TRD

Extended Length Tips - For pipetting into tall narrow tubes

LTS

102mm Long

RAININ extended-length LTS tips will reach to the bottom of blocks, tall vials, flasks, 100mm tubes, etc.

Narrow Diameter

These tips will pass through 8mm ID penetrable septa, such as on the Gen-Probe® APTIMA® specimen collection kits. Reach the bottom of these vials easily, without the pipette shaft touching the vessel wall and becoming contaminated.

Gen-Probe® and APTIMA® are registered trademarks of Gen-Probe Inc.

Low Retention Tips - For pipetting proteins, enzymes and DNA

LTS

Ultra Hydrophobic Tips

Extremely smooth tip surfaces free of surface defects. Then an exposed trifluoromethyl surface is created on the tip walls. Not compromised by autoclaving, this highly inert fluorocarbon polymer creates very low surface energy to help repel liquids. In 10, 250, and 1000µl volumes.

Low Retention Tips Perform Better

More pipetting accuracy means less of your valuable samples are wasted.

Large Volume Tips - For macro-volume pipetting

LTS TRD

Deliver large volumes with the same accuracy as smaller volumes. Available in 2000µl, 5000µl, 10ml & 20ml.

Wide-Orifice Tips - Ideal for delicate samples

LTS TRD

Ideal for delicate samples such as those containing mammalian cells or high-molecular-weight DNA.
The wide orifice (1.5 mm) minimizes shear forces on delicate samples and flow resistance for viscous samples.

Gel-Well™ - Great for dispensing samples in narrow wells

TRD

Designed for dispensing samples into narrow wells in electrophoretic slab gel apparatus, for sample recovery, or when high accuracy is required at low volumes. The flexible ultra-thin micro capillary is ideal for nucleic acid (DNA) sequencing and protein separation. Autoclave cycles at 1 bar and 11°C up to 15 minutes are possible without significant capillary shrinkage or closure

- **Available with flat or round tip ends**
- **Certified RNase/DNase-free**

ShaftGard™ 10µl Tips - Best against cross-contamination

TRD

Complete protection of shaft and tip ejector

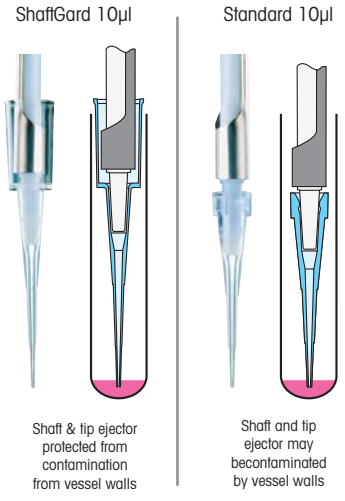
Fitting inside the ShaftGard tip, the shaft and tip ejector are protected from accidental contamination, reducing the need to decontaminate or sterilize the shaft & tip ejector when working with biological, radioactive, or other critical samples.

Contamination-free tip ejection

With ShaftGard tips, the tip ejector is enclosed by the tip and ejects the tip by pressing on the "shoulder" inside the tip…
…affording further protection against contamination.

Longer for microtube access

ShaftGard tips are significantly longer than standard micro-10 tips for easier access into microcentrifuge and PCR tubes.
Use with 2 and 10µl pipettes with traditional, conical shafts.


ShaftGard 10µl
Standard 10µl
Shaft & tip ejector protected from contamination from vessel walls
Shaft and tip ejector may becontaminated by vessel walls

BioClean™ Tips in Green Packaging

Reducing waste at the Source

Many labs are concerned with reducing environmental impact. RAININ has long been a pioneer in addressing these concerns through innovative package design for tip-rack refilling to reduce plastic waste at the source.

Green-Pak™ SpaceSaver™ – 85% less waste

Reduce waste and save space

Standard or presterilized Your selection
Contamination-free Protected from contamination
Fast loading Refilling 96 tips takes seconds
Save space Needs only 35% the space used by 10 conventional tip racks.
Ecological Shell is recyclable code 1 PET.

Green-Pak – 75% less waste

Refills with aerosol-resistant tips

Standard, presterilized, & with filter Your selection
Protected Each refill is completely sealed. No contamination
Fast trouble-free loading Easy to align over the empty rack
Ecological Recyclable code 1 PET shell

Seeing is believing - Plastic waste comparison

The photo shows the plastic waste from 10 empty 96-place racks, and that from an equivalent number of Green-Pak SpaceSaver stacked refills. Green-Pak SpaceSaver reduces waste by about 85%, compared to regular racks.

RAININ Tip Packaging Options

With a vast choice of packaging options, from standard racks to bulk tips to the waste-reducing SpaceSaver, RAININ has the perfect tip packaging for you.

LTS TRD

Removable-cover racks

Backbone of RAININ's ecological refill system

Standard, presterilized, & with filter Your selection
Refillable SpaceSaver and Green-Pak designed to refill these racks
Fast tip loading The sturdy, non-flexing shelf construction allows easy tip loading with single & multichannel pipettes
Protected Sealed bottoms & overlapping lids protect tips from particulates & microorganisms.
Autoclavable Two-position lid allows autoclaving with the lid in the vent position.

Economical bulk tips - High-quality, practically zero waste

Bulk tips are available in the following sizes:

LTS: 10, 250, 300, 1000, 2000, 5000µl, 10ml, and 20ml.
Traditional: 10, 250, 1000, 2000, 2500, 5000µl and 10ml.

10ml and 20ml are also available individually wrapped and sterilized

StableStak™ and StableRak™

Maximum stability for Multichannel work

RAININ's unique Double-96 format systems have been designed for multichannel, high-production environments. Each layer contains 192 easy-loading tips, and rubber feet prevent skidding. StableRak is ideal for filter tip users.

Easiest to use Deep-well for quick tip mounting
Stable Non-skid rubber feet keep the racks in place
Rigid Strong flat trays for even tip loading
Double-96 format Saves time, increases productivity

CHOOSE THE MOST EFFICIENT DOUBLE-96 FORMAT PRODUCT FOR YOUR APPLICATION

StableStak – Multilayer stacks

Save space, get 60% less waste!

- One StableStak (960 tips in 5 layers) replaces ten 96-place racks
- Each layer has 192 tips ready for use at once!
- Available in standard and presterilized; in 10, 250, 300, and 1000µl volumes

StableRak – individual racks

Ideal for filter-tip users, 35% less waste

- Contains 192 tips in one rack
- Five StableRaks (960 tips) replace ten 96-place racks
- Available in filter, presterilized, and standard; in 10, 250, 300, 1000, and 1200µl volumes

LTS™ Tips for RAININ LTS™ Pipettes

Green-Pak SpaceSaver

Cat. No.	Description	Maximum Capacity	Fits LTS Pipette	Type
GPS-L10	960 tips in 10 refills	20 µl	2, 10, 20	
GPS-L10S	960 tips in 10 refills	20 µl	2, 10, 20	Presterilized
GPS-L250	960 tips in 10 refills	200 µl	50,100, 200	
GPS-L250S	960 tips in 10 refills	200 µl	50,100, 200	Presterilized
GPS-L300	768 tips in 8 refills	300 µl	300	
GPS-L300S	768 tips in 8 refills	300 µl	300	Presterilized
GPS-L1000	768 tips in 8 refills	1000 µl	1000	
GPS-L1000S	768 tips in 8 refills	1000 µl	1000	Presterilized

Green-Pak

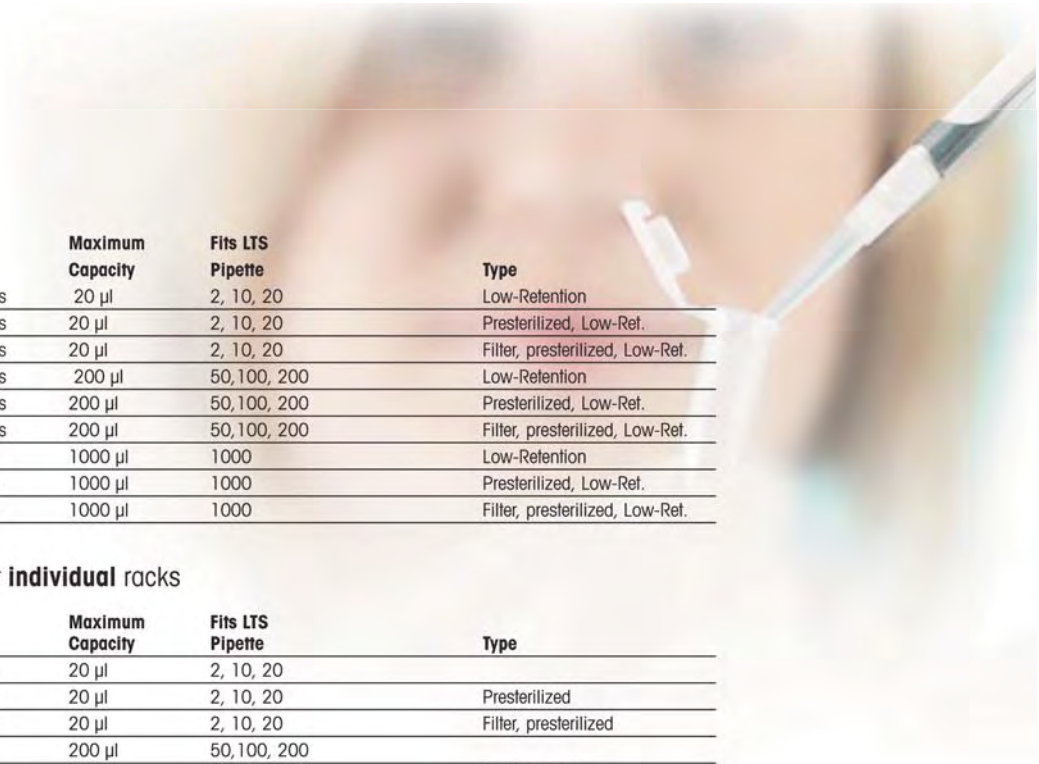
Cat. No.	Description	Maximum Capacity	Fits LTS Pipette	Type
GP-L10	960 tips in 10 refills	20 µl	2, 10, 20	
GP-L10S	960 tips in 10 refills	20 µl	2, 10, 20	Presterilized
GP-L10F	960 tips in 10 refills	20 µl	2, 10, 20	Filter, presterilized
GP-L250	960 tips in 10 refills	200 µl	50,100, 200	
GP-L250S	960 tips in 10 refills	200 µl	50,100, 200	Presterilized
GP-L200F	960 tips in 10 refills	200 µl	50,100, 200	Filter, presterilized
GP-L1000	768 tips in 8 refills	1000 µl	1000	
GP-L1000S	768 tips in 8 refills	1000 µl	1000	Presterilized
GP-L1000F	768 tips in 8 refills	1000 µl	1000	Filter, presterilized
GPR-L10	Empty racks/lids for any GP/GPS 10 µl refills, red, package of 10			
GPR-L250	Empty racks/lids for any GP/GPS 250 µl refills, green, package of 10			
GPR-L1000	Empty racks/lids for any GP/GPS 1000 µl refills, blue, package of 8			

Removable-Cover Racks

Cat. No.	Description	Maximum Capacity	Fits LTS Pipette	Type
RT-L10	960 tips in 10 racks	20 µl	2, 10, 20	
RT-L10S	960 tips in 10 racks	20 µl	2, 10, 20	Presterilized
RT-L10F	960 tips in 10 racks	20 µl	2, 10, 20	Filter, presterilized
RT-L250	960 tips in 10 racks	200 µl	50,100, 200	
RT-L250S	960 tips in 10 racks	200 µl	50,100, 200	Presterilized
RT-L200F	960 tips in 10 racks	200 µl	50,100, 200	Filter, presterilized
RT-L250W	960 tips in 10 racks	200 µl	50,100, 200	Wide-Orifice
RT-L250WS	960 tips in 10 racks	200 µl	50,100, 200	Wide-Orifice, presterilized
RT-L300	768 tips in 8 racks	300 µl	300	
RT-L300S	768 tips in 8 racks	300 µl	300	Presterilized
RT-L300F	768 tips in 8 racks	300 µl	300	Filter, presterilized
RT-L1000	768 tips in 8 racks	1000 µl	1000	
RT-L1000S	768 tips in 8 racks	1000 µl	1000	Presterilized
RT-L1000F	768 tips in 8 racks	1000 µl	1000	Filter, presterilized
RT-L1000W	768 tips in 8 racks	1000 µl	1000	Wide-Orifice
RT-L1000WS	768 tips in 8 racks	1000 µl	1000	Wide-Orifice, presterilized
RT-L1200	768 tips in 8 racks	1200 µl	1200, 1000	
RT-L1200S	768 tips in 8 racks	1200 µl	1200, 1000	Presterilized
RT-L1200F	768 tips in 8 racks	1200 µl	1200, 1000	Filter, presterilized
RT-L2000	480 tips in 8 racks	2000 µl	2000 µl	
RT-L2000S	480 tips in 8 racks	2000 µl	2000 µl	Presterilized
RT-L2000F	480 tips in 8 racks	2000 µl	2000 µl	Filter, presterilized
RT-L5000	192 tips in 8 racks	5000 µl	5000 µl	
RT-L5000S	192 tips in 8 racks	5 ml	5000 µl	Presterilized

Extended-length Tips

Cat. No.	Description	Maximum Capacity	Fits LTS Pipette	Type
RT-L250X	768 tips in 8 racks	200 µl	50,100, 200	
RT-L250XS	768 tips in 8 racks	200 µl	50,100, 200	Presterilized, ext length
RT-L200XF	768 tips in 8 racks	200 µl	50,100, 200	Filter, presterilized, ext length
RT-L1000X	768 tips in 8 racks	1200 µl	1000, 1200	
RT-L1000XS	768 tips in 8 racks	1200 µl	1000, 1200	Presterilized, ext length
RT-L1000XF	768 tips in 8 racks	1200 µl	1000, 1200	Filter, presterilized, ext length



Low-retention Tips

Cat. No.	Description	Maximum Capacity	Fits LTS Pipette	Type
RT-L10LR	960 tips in 10 racks	20 µl	2, 10, 20	Low-Retention
RT-L10SLR	960 tips in 10 racks	20 µl	2, 10, 20	Presterilized, Low-Ret.
RT-L10FLR	960 tips in 10 racks	20 µl	2, 10, 20	Filter, presterilized, Low-Ret.
RT-L250LR	960 tips in 10 racks	200 µl	50,100, 200	Low-Retention
RT-L250SLR	960 tips in 10 racks	200 µl	50,100, 200	Presterilized, Low-Ret.
RT-L200FLR	960 tips in 10 racks	200 µl	50,100, 200	Filter, presterilized, Low-Ret.
RT-L1000LR	768 tips in 8 racks	1000 µl	1000	Low-Retention
RT-L1000SLR	768 tips in 8 racks	1000 µl	1000	Presterilized, Low-Ret.
RT-L1000FLR	768 tips in 8 racks	1000 µl	1000	Filter, presterilized, Low-Ret.

StableRak double-96 format **individual** racks

Cat. No.	Description	Maximum Capacity	Fits LTS Pipette	Type
SR-L10	960 tips in 5 racks	20 µl	2, 10, 20	
SR-L10S	960 tips in 5 racks	20 µl	2, 10, 20	Presterilized
SR-L10F	960 tips in 5 racks	20 µl	2, 10, 20	Filter, presterilized
SR-L250	960 tips in 5 racks	200 µl	50,100, 200	
SR-L250S	960 tips in 5 racks	200 µl	50,100, 200	Presterilized
SR-L200F	960 tips in 5 racks	200 µl	50,100, 200	Filter, presterilized
SR-L300	768 tips in 4 racks	300 µl	300	
SR-L300S	768 tips in 4 racks	300 µl	300	Presterilized
SR-L300F	768 tips in 4 racks	300 µl	300	Filter, presterilized
SR-L1000	768 tips in 4 racks	1000 µl	1000	
SR-L1000S	768 tips in 4 racks	1000 µl	1000	Presterilized
SR-L1000F	768 tips in 4 racks	1000 µl	1000	Filter, presterilized
SR-L1200	768 tips in 4 racks	1200 µl	1200, 1000	
SR-L1200S	768 tips in 4 racks	1200 µl	1200, 1000	Presterilized
SR-L1200F	768 tips in 4 racks	1200 µl	1200, 1000	Filter, presterilized

StableStak double-96 format **stacked** racks

Cat. No.	Description	Maximum Capacity	Fits LTS Pipette	Type
SS-L10	960 tips in 5 layers	20 µl	2, 10, 20	
SS-L10S	960 tips in 5 layers	20 µl	2, 10, 20	Presterilized
SS-L250	960 tips in 5 layers	200 µl	50,100, 200	
SS-L250S	960 tips in 5 layers	200 µl	50,100, 200	Presterilized
SS-L300	768 tips in 4 layers	300 µl	300	
SS-L300S	768 tips in 4 layers	300 µl	300	Presterilized
SS-L1000	768 tips in 4 layers	1000 µl	1000	
SS-L1000S	768 tips in 4 layers	1000 µl	1000	Presterilized

Bulk Tips

Cat. No.	Description	Maximum Capacity	Fits LTS Pipette	Type
RC-L10	1000 tips in bags	20 µl	2, 10, 20	
RC-L250	1000 tips in bags	200 µl	50,100, 200	
RC-L300	1000 tips in bags	300 µl	300	
RC-L1000	1000 tips in bags	1000 µl	1000	
RC-L1200	1000 tips in bags	1200 µl	1200,1000	
RC-L2000	1000 tips in bags	2000 µl	2000 µl	
RC-L5000	1000 tips in bags	5000 µl	5000 µl	
RC-L10ML	200 tips in bags	10 ml	10 ml	
RC-L10MLS	75 tips individ. wrapped	10 ml	10 ml	Presterilized, individ. wrapped
RC-L20ML	100 tips in bags	20 ml	20 ml	
RC-L20MLS	50 tips individ. wrapped	20 ml	20 ml	Presterilized, individ. wrapped

Traditional Tips

Green-Pak SpaceSaver

Cat. No.	Description	Maximum Capacity	Fits Traditional Pipette Model	Type
GPS-10G	960 tips in 10 refills	10 µl	2, 10	ShaftGard
GPS-10GS	960 tips in 10 refills	10 µl	2, 10	ShaftGard / Presterilized
GPS-250	960 tips in 10 refills	250 µl	20, 25, 100, 200, 250	
GPS-250S	960 tips in 10 refills	250 µl	20, 25, 100, 200, 250	Presterilized
GPS-1000	768 tips in 8 refills	1000 µl	1000	
GPS-1000S	768 tips in 8 refills	1000 µl	1000	Presterilized

Green-Pak

Cat. No.	Description	Maximum Capacity	Fits Traditional Pipette Model	Type
GP-10	960 tips in 10 refills	10 µl	2, 10	
GP-10S	960 tips in 10 refills	10 µl	2, 10	Presterilized
GP-10F	960 tips in 10 refills	10 µl	2, 10	Filter, presterilized
GP-10G	960 tips in 10 refills	10 µl	2, 10	ShaftGard
GP-10GS	960 tips in 10 refills	10 µl	2, 10	ShaftGard / Presterilized
GP-10GF	960 tips in 10 refills	10 µl	2, 10	ShaftGard / Filter
GP-20F	960 tips in 10 refills	30 µl	20, 25	Filter, presterilized
GP-100F	960 tips in 10 refills	100 µl	100	Filter, presterilized
GP-250	960 tips in 10 refills	250 µl	20, 25, 100, 200, 250	
GP-250S	960 tips in 10 refills	250 µl	20, 25, 100, 200, 250	Presterilized
GP-200F	960 tips in 10 refills	200 µl	200, 250	Filter, presterilized
GP-1000	768 tips in 8 refills	1000 µl	1000	
GP-1000S	768 tips in 8 refills	1000 µl	1000	Presterilized
GP-1000F	768 tips in 8 refills	1000 µl	1000	Filter, presterilized
GPR-10	Empty racks/ lids for GP-10 products, Purple, pkg of 10			
GPR-10G	Empty racks/ lids for GP-10G, GPS-10G products, Red, pkg of 10, ShaftGard			
GPR-250	Empty racks/ lids for GP-250, GPS-250 products, Green, pkg of 10			
GPR-1000	Empty racks/ lids for GP-1000, GPS-1000 products, Blue, pkg of 8			

Removable-Cover Racks

Cat. No.	Description	Maximum Capacity	Fits Traditional Pipette Model	Type
RT-10	960 tips in 10 racks	10 µl	2, 10	
RT-10S	960 tips in 10 racks	10 µl	2, 10	Presterilized
RT-10F	960 tips in 10 racks	10 µl	2, 10	Filter, presterilized
RT-10G	960 tips in 10 racks	10 µl	2, 10	ShaftGard
RT-10GS	960 tips in 10 racks	10 µl	2, 10	ShaftGard / Presterilized
RT-10GF	960 tips in 10 racks	10 µl	2, 10	ShaftGard / Filter
RT-20F	960 tips in 10 racks	30 µl	20, 25	Filter, presterilized
RT-100F	960 tips in 10 racks	100 µl	100	Filter, presterilized
RT-250	960 tips in 10 racks	250 µl	20, 25, 100, 200, 250	
RT-250S	960 tips in 10 racks	250 µl	20, 25, 100, 200, 250	Presterilized
RT-200F	960 tips in 10 racks	200 µl	200, 250	Filter, presterilized
RT-1000	768 tips in 8 racks	1000 µl	1000	
RT-1000S	768 tips in 8 racks	1000 µl	1000	Presterilized
RT-1000F	768 tips in 8 racks	1000 µl	1000	Filter, presterilized
RT-2000	480 tips in 8 racks	2000 µl	2000, 2500 µl	
RT-2000S	480 tips in 8 racks	2000 µl	2000, 2500 µl	Presterilized
RT-2000F	480 tips in 8 racks	2000 µl	2000, 2500 µl	Filter, presterilized
RT-5000	192 tips in 8 racks	5000 µl	5000 µl	
RT-5000S	192 tips in 8 racks	5000 µl	5000 µl	Presterilized

StableStak

Cat. No.	Description	Maximum Capacity	Fits Traditional Pipette Model	Type
SS-250	960 tips in 5 layers	250 µl	20, 25, 100, 200, 250	
SS-250S	960 tips in 5 layers	250 µl	20, 25, 100, 200, 250	
SS-300	768 tips in 4 layers	300 µl	300	
SS-300S	768 tips in 4 layers	300 µl	300	Presterilized
SS-1000	768 tips in 4 layers	1000 µl	1000	
SS-1000S	768 tips in 4 layers	1000 µl	1000	Presterilized

StableRak

Cat. No.	Description	Capacity	Maximum Pipette Model	Fits Traditional Type
SR-20F	960 tips in 5 racks	30 µl	20, 25	Filter, presterilized
SR-100F	960 tips in 5 racks	100 µl	100	Filter, presterilized
SR-250	960 tips in 5 racks	250 µl	20, 25, 100, 200, 250	
SR-250S	960 tips in 5 racks	250 µL	20, 25, 100, 200, 250	Presterilized
SR-200F	960 tips in 5 racks	200 µl	200	Filter, presterilized
SR-300	768 tips in 4 racks	300 µl	300	
SR-300S	768 tips in 4 racks	300 µl	300	Presterilized
SR-300F	768 tips in 4 racks	300 µl	300	Filter, presterilized
SR-1000	768 tips in 4 racks	1000 µl	1000	
SR-1000S	768 tips in 4 racks	1000 µl	1000	Presterilized
SR-1000F	768 tips in 4 racks	1000 µl	1000	Filter, presterilized

Hinged-Cover Racks and Refills

Cat. No.	Description	Maximum Capacity	Fits Traditional Pipette Model	Type
HR-20F	960 tips in 10 racks	30 µl	20, 25	Filter, presterilized
HR-100F	960 tips in 10 racks	100 µl	100	Filter, presterilized
HR-250	960 tips in 10 racks	250 µl	20, 25, 100, 200, 250	
HR-250S	960 tips in 10 racks	250 µl	20, 25, 100, 200, 250	Presterilized
HR-200F	960 tips in 10 racks	200 µl	200, 250	Filter, presterilized
HR-1000	1000 tips in 10 racks	1000 µl	1000	
HR-1000S	1000 tips in 10 racks	1000 µl	1000	Presterilized
HR-1000F	1000 tips in 10 racks	1000 µl	1000	Filter, presterilized
RR-250	960 tips in 10 refills	250 µl	20, 25, 100, 200, 250	
RR-1000	1000 tips in 10 refills	1000 µl	1000	

Speciality Tips

Cat. No.	Description	Maximum Capacity	Fits Traditional Pipette Model	Type
GT-10-2	200 tips in 1 rack	10 µl	2, 10	Gel-Well, 0.17 mm
GT-10-4	200 tips in 1 rack	10 µl	2, 10	Gel-Well, 0.37 mm
GT-10-6	200 tips in 1 rack	10 µl	2, 10	Gel-Well, 0.57 mm
GT-060	480 tips in 5 racks	250 µl	20, 25, 100, 200, 250	Gel-Well, 0.60 mm
GT-250-2	200 tips in 1 rack	250 µl	20, 25, 100, 200, 250	Gel-Well, 0.17 mm
GT-250-4	200 tips in 1 rack	250 µl	20, 25, 100, 200, 250	Gel-Well, 0.37 mm
GT-250-6	200 tips in 1 rack	250 µl	20, 25, 100, 200, 250	Gel-Well, 0.57 mm
RC-250W	1000 tips in bags	250 µl	20, 25, 100, 200, 250	Wide-orifice
HR-250W	960 tips in 10 racks	250 µl	20, 25, 100, 200, 250	Wide-orifice
HR-250WS	960 tips in 10 racks	250 µl	20, 25, 100, 200, 250	Wide-orifice / Presterilized
HR-1000W	1000 tips in 10 racks	1000 µl	1000	Wide-orifice
HR-1000WS	1000 tips in 10 racks	1000 µl	1000	Wide-orifice / Presterilized

Classic Racks

Cat. No.	Description	Maximum Capacity	Fits Traditional Pipette Model	Type
RT-20	1000 tips in 10 racks	250 µl	20, 25, 100, 200, 250	
RT-20S	1000 tips in 10 racks	250 µl	20, 25, 100, 200, 250	Presterilized
RT-200	1000 tips in 10 racks	1000 µl	1000	
RT-200S	1000 tips in 10 racks	1000 µl	1000	Presterilized
RT-200F3	1000 tips in 10 racks	1000 µl	1000	Filter, presterilized

BULK Tips

Cat. No.	Maximum Description	Fits Traditional Capacity	Pipette Model	Type
RC-10	1000 tips in bags	10 µl	2, 10	
RC-10G	1000 tips in bags	10 µl	2, 10	ShaftGard
RC-250	1000 tips in bags	250 µl	20, 25, 100, 200, 250	
RC-200	1000 tips in bags	1000 µl	1000	Non-finepoint
RC-1000	1000 tips in bags	1000 µl	1000	
RC-2000	1000 tips in bags	2000 µl	2000, 2500 µl	
RC-2500	1000 tips in bags	2500 µl	2500 µl	
RC-5000	1000 tips in bags	5000 µl	5000 µl	
RC-10ML	200 tips in bags	10 ml	10 ml	
RC-10MLS	75 tips individ. wrapped	10 ml	10 ml	

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20 Charles Street
Luton
Bedfordshire
LU2 0EB

t: **01582 747500**
f: **01582 483332**
e: **orders@anachem.co.uk**
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